

WE CLAIM:

1. A composition comprising:  
carboxylic acid antimicrobial agent; and  
5 alkoxyated amine.

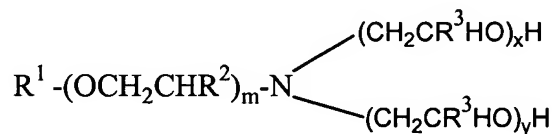
2. The composition of claim 1, wherein the carboxylic acid antimicrobial agent comprises a C<sub>6</sub>-C<sub>14</sub> alkyl carboxylic acid, or salt or ester thereof.

3. The composition of claim 2, wherein the C<sub>6</sub>-C<sub>14</sub> alkyl carboxylic acid comprises octanoic acid, heptanoic acid, decanoic acid, dodecanoic acid, myristic acid, or mixture thereof.

4. The composition of claim 2, wherein the C<sub>8</sub>-C<sub>14</sub> alkyl carboxylic acid  
15 comprises octanoic acid.

5. The composition of claim 1, wherein the alkoxyated amine comprises ether alkoxyated amine, alkyl alkoxyated amine, or mixture thereof.

6. The composition of claim 5, wherein the alkoxyated amine comprises ether alkoxyated amine of Formula III:



where: R<sup>1</sup> is a straight or branched alkyl or alkylaryl; R<sup>2</sup> is independently in each occurrence hydrogen or alkyl from 1 to 6 carbons; R<sup>3</sup> is independently in each occurrence hydrogen or  
25 alkyl of from 1 to 6 carbons; m is about 1 to about 20; x and y is each independently 1 to about 20; and x+y averages from about 1 to about 40.

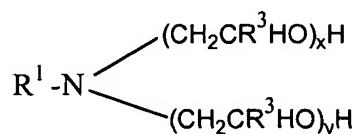
7. The composition of claim 5, wherein the alkoxyated amine comprises ether alkoxyated amine comprising:

C<sub>12</sub> to C<sub>14</sub> propoxy amine ethoxylate of the formula: R-(PO)<sub>10</sub>N[EO]<sub>2.5</sub>-H[EO]<sub>2.5</sub>-H;  
 C<sub>12</sub> to C<sub>14</sub> propoxy amine ethoxylate of the formula: R-(PO)<sub>5</sub>N[EO]<sub>2.5</sub>-H[EO]<sub>2.5</sub>-H;  
 C<sub>12</sub> to C<sub>14</sub> propoxy amine ethoxylate of the formula: R-(PO)<sub>2</sub>N[EO]<sub>2.5</sub>-H[EO]<sub>2.5</sub>-H;  
 poly (5) oxyethylene isodecyloxypropylamine, which has a branched C<sub>10</sub>H<sub>21</sub> alkyl

5 group off the ether oxygen;

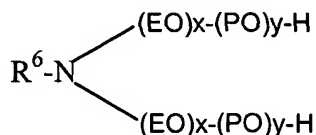
iso-(2-hydroxyethyl) isodecyloxypropylamine, which has a branched C<sub>10</sub>H<sub>21</sub> alkyl  
 group off the ether oxygen;  
 or mixture thereof.

10 8. The composition of claim 5, wherein the alkoxyated amine comprises alkyl  
 alkoxyated amine of Formula V:



where: R<sup>1</sup> is straight or branched alkyl or alkylaryl; R<sup>3</sup> is independently in each occurrence  
 hydrogen or alkyl of from 1 to 6 carbons; x and y each independently average from 0 to  
 15 about 25; and x+y average from about 1 to about 50.

9. The composition of claim 8, wherein the alkyl alkoxyated amine has Formula  
 VI:



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where: R<sup>6</sup> is C18 alkyl; x and y each independently average from 0 to about 25; and x+y  
 averages from about 1 to about 50.

10. The composition of claim 9, wherein the alkyl alkoxyated amine comprises  
 25 N,N-bis-2(omega-hydroxypolyoxyethylene/polyoxypropylene)ethyl alkylamine (CAS  
 number 68213-26-3).

11. The composition of claim 9, wherein the alkyl alkoxyated amine has chemical formula  $C_{64}H_{130}O_{18}$ .
12. The composition of claim 1, further comprising acidulant.
13. The composition of claim 12, wherein the acidulant comprises phosphoric acid, citric acid, lactic acid, sulfuric acid, nitric acid, hydroxyacetic acid, gluconic acid, oxalic, formic acid, glutaric acid, malic acid, hydroxy propionic acid, succinic acid, adipic acid, fumaric acid, fumaric  
or a mixture thereof.
14. The composition of claim 12, wherein the acidulant comprises phosphoric acid, citric acid, lactic acid, or a mixture thereof.
15. The composition of claim 1, further comprising surfactant.
16. The composition of claim 15, wherein the surfactant comprises anionic surfactant, amphoteric surfactant, nonionic surfactant, or mixture thereof.
17. The composition of claim 16, comprising anionic surfactant, the anionic surfactant comprising alkyl sulfonate, alkylaryl sulfonate, alcohol alkoxyate carboxylate, sarcosinate, taurate, acyl amino acid, alkanolic ester, phosphate ester, sulfuric acid ester, salt or ester thereof, or mixture thereof.
18. The composition of claim 16, comprising amphoteric surfactant, the amphoteric surfactant comprising acyl amino acid, N-alkyl amino acid, salt or ester thereof, or mixture thereof.
19. The composition of claim 16, comprising nonionic surfactant, the nonionic surfactant comprising alcohol alkoxyate, arylacyl alkoxyate, amine oxide, alkoxide

condensate; EOPO block, reverse, or heteric polymer polysaccharide ether; or mixture thereof.

20. The composition of claim 19, wherein the alcohol alkoxylate comprises C<sub>9</sub>-  
5 C<sub>12</sub> linear ethoxylate with 7 moles EO average, C<sub>9</sub>-C<sub>12</sub> linear ethoxylate with 3 moles EO average, or mixture thereof.

21. The composition of claim 15, wherein the surfactant comprises  
10 cocoamidopropyl betaine.

22. The composition of claim 1, further comprising solvent.

23. The composition of claim 22, wherein the solvent comprises isopropyl  
15 alcohol.

24. The composition of claim 1, further comprising diluent.

25. The composition of claim 24, wherein the diluent comprises water.

20 26. The composition of claim 1, further comprising sequestrant.

27. The composition of claim 26, wherein the sequestrant comprises  
aminomethylene triphosphonic acid or 1-hydroxy ethylidene-1,1-diphosphonic acid.

25 28. A method of reducing microbial population on an object, comprising  
contacting the object with a composition comprising:  
carboxylic acid antimicrobial agent; and  
alkoxylated amine.

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